



Dart Aerospace Ltd.
1270 Aberdeen St
Hawkesbury, ON
K6A 1K7
Canada

Tel (613) 632-5200
Fax 613 632-5246

D5518-1

Job Sheet 195278



Part No: D5518-1

Job Qty: 50 pcs

Part Name: Crossbolt Spacer



Part Weight: 0 lbs

Status: New

Priority: Medium

Job Created: 5/16/19

Job Tracking No:

Due Date: 11/6/19

Created By: Kimberley Guerin

Type: Stock

Description:

Note: IPP REV:A 17.05.05 NEW ISSUE DD VERF:JFS IPP REV:B 17.11.03 AS PER DWG REV:A DD VERF:JFS

Ship Via:

Reprint

Bill of Materials

Job Routing

Op No	Operation	Qty	Start Date	Due Date	Standard		Workcenter / Supplier Lead Time	
					Setup Hrs	Run Hrs		
170	Purchasing	50 pcs	11/6/19	11/6/19	0.00	0.00	Purchasing - 1	<i>RE</i> OCT 24 2019
							Purchasing - 2	
							Purchasing - 3	
180	Packaging 2-1 - Receive - B4B	50 pcs	11/6/19	11/6/19	0.00	0.00	Packaging 2 - 1 - B4B	<i>RE</i> OCT 24 2019
							Packaging 2 - 2 - B4B	
							Packaging 2 - 3 - B4B	
							Packaging 2 - 5 - B4B	
							Packaging 2 - 4 - B4B	
							Packaging 2 - 6 - B4B	
							Packaging 2 - 7 - B4B	
							Packaging 2 - 8 - B4B	
							Packaging 2 - 9 - B4B	
							Packaging 2 - 10 - B4B	
							Packaging 2 - 11 - B4B	
							Packaging 2 - 12 - B4B	
							Packaging 2 - 13 - B4B	
							Packaging 2 - 14 - B4B	
							Packaging 2 - 15 - B4B	
							Packaging 2 - 16 - B4B	
							Packaging 2 - 17 - B4B	
							Packaging 2 - 18 - B4B	
							Packaging 2 - 19 - B4B	
							Packaging 2 - 20 - B4B	
							Packaging 2 - 21 - B4B	
							Packaging 2 - 22 - B4B	
							Packaging 2 - 23 - B4B	
							Packaging 2 - 24 - B4B	
							Packaging 2 - 25 - B4B	
							Packaging 2 - 26 - B4B	
							Packaging 2 - 27 - B4B	
							Packaging 2 - 28 - B4B	



Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
CANADA
TEL.: 1 813 632-5200
Email: sales@dartaero.com
www.dartaerospace.com

Container No: S225903



Part: D5518-1

Job No: 195278

Serial No/Batch: S225903

Revision: A

Inspector:

Exp Date:

Instructions: Various STC's

Date: 10/24/19

Plex 10/24/19 8:34 AM dart.lussier.patrick

					Packaging 2 - 29 - B4B	
					Packaging 2 - 30 - B4B	
					Packaging 2 - 31 - B4B	
					Packaging 2 - 32 - B4B	
					Packaging 2 - 33 - B4B	
					Packaging 2 - 34 - B4B	
					Packaging 2 - 35 - B4B	
					Packaging 2 - 36 - B4B	
185 QC 6	50 pcs	11/6/19	0.00	0.00	QC 6 - 9	
					QC 6 - 68	
					QC 6 - 61	
					QC 6 - 40	
190 Packaging 3-1 - Stock - B4B	50 pcs	11/6/19	0.00	0.00	Packaging 3 - 1 - B4B	
					Packaging 3 - 2 - B4B	
					Packaging 3 - 3 - B4B	
					Packaging 3 - 4 - B4B	
					Packaging 3 - 5 - B4B	
					Packaging 3 - 6 - B4B	
					Packaging 3 - 7 - B4B	
					Packaging 3 - 8 - B4B	
					Packaging 3 - 9 - B4B	
					Packaging 3 - 10 - B4B	
					Packaging 3 - 11 - B4B	
					Packaging 3 - 12 - B4B	
					Packaging 3 - 13 - B4B	
					Packaging 3 - 14 - B4B	
					Packaging 3 - 15 - B4B	
					Packaging 3 - 16 - B4B	
					Packaging 3 - 17 - B4B	
					Packaging 3 - 18 - B4B	
					Packaging 3 - 19 - B4B	
					Packaging 3 - 20 - B4B	
					Packaging 3 - 21 - B4B	
					Packaging 3 - 22 - B4B	
					Packaging 3 - 23 - B4B	
					Packaging 3 - 24 - B4B	
					Packaging 3 - 25 - B4B	
					Packaging 3 - 26 - B4B	
					Packaging 3 - 27 - B4B	
					Packaging 3 - 28 - B4B	
					Packaging 3 - 29 - B4B	
					Packaging 3 - 30 - B4B	
					Packaging 3 - 31 - B4B	
					Packaging 3 - 32 - B4B	
					Packaging 3 - 33 - B4B	
					Packaging 3 - 34 - B4B	
					Packaging 3 - 35 - B4B	
					Packaging 3 - 36 - B4B	
200 QC 21 - SA	50 pcs	11/6/19	0.00	0.00	QC 21 - SA - 21	
					QC 21 - SA - 70	
					QC 21 - SA - 53	

DAS
OCT 31 2019 68
9-89

JW 19-01-08

NOV 08 2019

Part Op 170 - ISSUE P/O: _____ SUPPLIER: E.T.M. INDUSTRIES INC. MANUFACTURE AS PER DWG
 Descriptions: ***HEAT TREAT TO T4/T42 CONDITION MIN. UTS=30 KSI (60 HREW MIN) NOTE: DETAIL C OF C REQUIRED PART
 ARE MADE FROM 6061-T6 MATERIAL*** C OF C IS REQUIRED
 180 - (Receive & Inspect for Damage & Mat'l Certs)
 185 - QC6- All purchased or subcontracted products
 190 - (Identify as per dwg & Stock Location: _____), ***STOCK IN SKIDTUBE CELL*** LOCATION : LG001
 200 - (QC21- Final Inspection - Work Order Release)

PO Details				
E.T.M. Industries Inc. (etm001-vc)  PO No: POHB043487 Line No: 29				
Job BOM				
Part / Item D5518-1P	Component Name Crossbolt Spacer	Quantity 50 Ea (1 ea)	Operation 170-Purchasing	Container <i>S-225901</i>
Job Allocations				
Operation 170-Purchasing	Component Part D5518-1P	Required 50	Inventory 0	Allocated 0
Part Specifications				
Specifications could not be found.				

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Dart Aerospace Ltd.
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PURCHASE ORDER

POHB043487



Supplier: ETM001-VC
E.T.M. Industries Inc.
310 Hall Avenue, Box 610
Renfrew
ON
K7V 4E7 Canada
Phone: 613-432-6136
Fax: 613-432-8212

PO No: POHB043487
PO Date: 5/17/19
Due Date: 5/15/20
Purchase Order Revision:
Revision Date:
Ship-To Contact: Guerin, Kimberley
Phone: 613-632-5200 Ext: 298
kguerin@dartaero.com

Ship To: 1270 Aberdeen Street
Hawkesbury
ON
K6A 1K7 Canada
Phone: 613-632-5200

Via: Ground
Pymt Terms: Net 30
Freight Terms:
Special Comments:

Items

Line Item	Job	Part	Supplier Part No	Item No	Description	Status	Account	Due Date	Order Quantity	Received Quantity	Balance	Unit Price (CAD)	Extended Price
1	195270	D2579P			Crossbolt Spacer : as per Dwg D2579 RevE	Received	-	9/6/19	50 Ea	50 Ea	0 Ea	\$2.90/Ea	\$0.00
2	195283	D2579P			Crossbolt Spacer : as per Dwg D2579 RevE	Firmed	-	11/15/19	50 Ea	0 Ea	50 Ea	\$2.90/Ea	\$145.00
3	195294	D2579P			Crossbolt Spacer : as per Dwg D2579 RevE	Firmed	-	2/14/20	50 Ea	0 Ea	50 Ea	\$2.90/Ea	\$145.00
4	195305	D2579P			Crossbolt Spacer : as per Dwg D2579 RevE	Firmed	-	5/15/20	50 Ea	0 Ea	50 Ea	\$2.90/Ea	\$145.00
5	195271	D3681-1P			Spacer : as per Dwg D3681-1 RevA	Received	-	9/6/19	250 Ea	250 Ea	0 Ea	\$3.75/Ea	\$0.00
6	195284	D3681-1P			Spacer : as per Dwg D3681-1 RevA	Firmed	-	11/15/19	250 Ea	0 Ea	250 Ea	\$3.75/Ea	\$937.50

Plex 10/8/19 2:03 PM Dart.paul.derick



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Items													
Line Item	Job	Part	Supplier Part No	Item No	Description	Status	Account	Due Date	Order Quantity	Received Quantity	Balance	Unit Price (CAD)	Extended Price
7	195295	D3681-1P			Spacer : as per Dwg D3681-1 RevA	Firmed	-	2/14/20	250 Ea	0 Ea	250 Ea	\$3.75/Ea	\$937.50
8	195306	D3681-1P			Spacer : as per Dwg D3681-1 RevA	Firmed	-	5/15/20	250 Ea	0 Ea	250 Ea	\$3.75/Ea	\$937.50
9	195272	D3903-1P			Spacer : as per Dwg D3903-1 RevB	Received	-	9/6/19	200 Ea	200 Ea	0 Ea	\$3.75/Ea	\$0.00
10	195285	D3903-1P			Spacer : as per Dwg D3903-1 RevB	Firmed	-	11/15/19	200 Ea	0 Ea	200 Ea	\$3.75/Ea	\$750.00
11	195296	D3903-1P			Spacer : as per Dwg D3903-1 RevB	Firmed	-	2/14/20	200 Ea	0 Ea	200 Ea	\$3.75/Ea	\$750.00
12	195307	D3903-1P			Spacer : as per Dwg D3903-1 RevB	Firmed	-	5/15/20	200 Ea	0 Ea	200 Ea	\$3.75/Ea	\$750.00
13	195273	D3490-1P			Crossbolt Spacer : as per Dwg D3490-1 RevA	Received	-	9/6/19	101 Ea	101 Ea	0 Ea	\$3.90/Ea	\$0.00
Line Item Note Material WW-T-700/6 can be use													
14	195286	D3490-1P			Crossbolt Spacer : as per Dwg D3490-1 RevA	Firmed	-	11/15/19	100 Ea	0 Ea	100 Ea	\$3.90/Ea	\$390.00
Line Item Note Material WW-T-700/6 can be use													



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Items													
Line Item	Job	Part	Supplier Part No	Item No	Description	Status	Account	Due Date	Order Quantity	Received Quantity	Balance	Unit Price (CAD)	Extended Price
15	195297	D3490-1P			Crossbolt Spacer : as per Dwg D3490-1 RevA	Firmed	-	2/14/20	100 Ea	0 Ea	100 Ea	\$3.90/Ea	\$390.00
Line Item Note Material WW-T-700/6 can be use													
16	195308	D3490-1P			Crossbolt Spacer : as per Dwg D3490-1 RevA	Firmed	-	5/15/20	100 Ea	0 Ea	100 Ea	\$3.90/Ea	\$390.00
Line Item Note Material WW-T-700/6 can be use													
17	195275	D2743P			Crossbolt Spacer : as per Dwg D2743 RevB	Received	-	9/6/19	250 Ea	250 Ea	0 Ea	\$2.95/Ea	\$0.00
18	195287	D2743P			Crossbolt Spacer : as per Dwg D2743 RevB	Firmed	-	11/15/19	250 Ea	0 Ea	250 Ea	\$2.95/Ea	\$737.50
19	195298	D2743P			Crossbolt Spacer : as per Dwg D2743 RevB	Firmed	-	2/14/20	250 Ea	0 Ea	250 Ea	\$2.95/Ea	\$737.50
20	195309	D2743P			Crossbolt Spacer : as per Dwg D2743 RevB	Firmed	-	5/15/20	250 Ea	0 Ea	250 Ea	\$2.95/Ea	\$737.50
21	195276	D2649P			Crossbolt Spacer : as per Dwg D2649 RevB1	Received	-	9/6/19	75 Ea	75 Ea	0 Ea	\$2.25/Ea	\$0.00
22	195288	D2649P			Crossbolt Spacer : as per Dwg D2649 RevB1	Firmed	-	11/15/19	75 Ea	0 Ea	75 Ea	\$2.25/Ea	\$168.75
OCT 24 2019													

OCT 24 2019



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Items													
Line Item	Job	Part	Supplier Part No	Item No	Description	Status	Account	Due Date	Order Quantity	Received Quantity	Balance	Unit Price (CAD)	Extended Price
23	195299	D2649P			Crossbolt Spacer : as per Dwg D2649 RevB1	Firmed	-	2/14/20	75 Ea	0 Ea	75 Ea	\$2.25/Ea	\$168.75
24	195310	D2649P			Crossbolt Spacer : as per Dwg D2649 RevB1	Firmed	-	5/15/20	75 Ea	0 Ea	75 Ea	\$2.25/Ea	\$168.75
25	195277	D3275-1P			Crossbolt Spacer : as per Dwg D3275-1 RevA1	Received	-	9/6/19	62 Ea	62 Ea	0 Ea	\$2.25/Ea	\$0.00
Line Item Note Material WW-T-700/6 can be use													
26	195289	D3275-1P			Crossbolt Spacer : as per Dwg D3275-1 RevA1	Firmed	-	11/15/19	62 Ea	0 Ea	62 Ea	\$2.25/Ea	\$139.50
Line Item Note Material WW-T-700/6 can be use													
27	195300	D3275-1P			Crossbolt Spacer : as per Dwg D3275-1 RevA1	Firmed	-	2/14/20	62 Ea	0 Ea	62 Ea	\$2.25/Ea	\$139.50
Line Item Note Material WW-T-700/6 can be use													
28	195311	D3275-1P			Crossbolt Spacer : as per Dwg D3275-1 RevA1	Firmed	-	5/15/20	62 Ea	0 Ea	62 Ea	\$2.25/Ea	\$139.50
Line Item Note Material WW-T-700/6 can be use													
29	195278	D5518-1P			Crossbolt Spacer : as per Dwg D5518-1 RevA	Firmed XSD	-	9/6/19	50 Ea	0 Ea	50 Ea	\$2.20/Ea	\$110.00

OCT 24 2019

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Items													
Line Item	Job	Part	Supplier Part No	Item No	Description	Status	Account	Due Date	Order Quantity	Received Quantity	Balance	Unit Price (CAD)	Extended Price
30	195290	D5518-1P			Crossbolt Spacer : as per Dwg D5518-1 RevA	Firmed	-	11/15/19	50 Ea	0 Ea	50 Ea	\$2.20/Ea	\$110.00
31	195301	D5518-1P			Crossbolt Spacer : as per Dwg D5518-1 RevA	Firmed	-	2/14/20	50 Ea	0 Ea	50 Ea	\$2.20/Ea	\$110.00
32	195312	D5518-1P			Crossbolt Spacer : as per Dwg D5518-1 RevA	Firmed	-	5/15/20	50 Ea	0 Ea	50 Ea	\$2.20/Ea	\$110.00
33	195279	D4202-1P			Spacer : as per Dwg D4202-1 RevD	Firmed	-	9/6/19	750 Ea	0 Ea	750 Ea	\$3.10/Ea	\$2,325.00
						X750		OCT 08 2019					DP
34	195291	D4202-1P			Spacer : as per Dwg D4202-1 RevD	Firmed	-	11/15/19	750 Ea	0 Ea	750 Ea	\$3.10/Ea	\$2,325.00
35	195302	D4202-1P			Spacer : as per Dwg D4202-1 RevD	Firmed	-	2/14/20	750 Ea	0 Ea	750 Ea	\$3.10/Ea	\$2,325.00
36	195313	D4202-1P			Spacer : as per Dwg D4202-1 RevD	Firmed	-	5/15/20	750 Ea	0 Ea	750 Ea	\$3.10/Ea	\$2,325.00
37	195280	D4720-1P			Spacer : as per Dwg D4720-1 RevB	Received	-	9/6/19	249 Ea	249 Ea	0 Ea	\$3.00/Ea	\$0.00

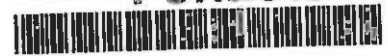


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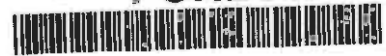
Items													
Line Item	Job	Part	Supplier Part No	Item No	Description	Status	Account	Due Date	Order Quantity	Received Quantity	Balance	Unit Price (CAD)	Extended Price
38	195292	D4720-1P			Spacer : as per Dwg D4720-1 RevB	Firmed	-	11/15/19	250 Ea	0 Ea	250 Ea	\$3.00/Ea	\$750.00
39	195303	D4720-1P			Spacer : as per Dwg D4720-1 RevB	Firmed	-	2/14/20	250 Ea	0 Ea	250 Ea	\$3.00/Ea	\$750.00
40	195314	D4720-1P			Spacer : as per Dwg D4720-1 RevB	Firmed	-	5/15/20	250 Ea	0 Ea	250 Ea	\$3.00/Ea	\$750.00
41	195281	D4686-1P			Spacer : as per Dwg D4686-1 RevB	Received	-	9/6/19	75 Ea	75 Ea	0 Ea	\$3.75/Ea	\$0.00
42	195293	D4686-1P			Spacer : as per Dwg D4686-1 RevB	Firmed	-	11/15/19	75 Ea	0 Ea	75 Ea	\$3.75/Ea	\$281.25
43	195304	D4686-1P			Spacer : as per Dwg D4686-1 RevB	Firmed	-	2/14/20	75 Ea	0 Ea	75 Ea	\$3.75/Ea	\$281.25
44	195315	D4686-1P			Spacer : as per Dwg D4686-1 RevB	Firmed	-	5/15/20	75 Ea	0 Ea	75 Ea	\$3.75/Ea	\$281.25
Grand Total:													\$22,638.50



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PURCHASE ORDER
POHB043487



Order Notes

Procurement Quality Clauses

- A005 RIGHT OF ENTRY
- A008 FIRST ARTICLE INSPECTION (FAI) BY SELLER, (DOCUMENTATION SENT TO DART AEROSPACE)
- A012 CHEMICAL AND PHYSICAL TEST REPORTS
- A016 PERSONNEL QUALIFICATION
- A017 RAW MATERIAL IDENTIFICATION (AS APPLICABLE)
- A026 CERTIFICATION OF MATERIAL CONFORMANCE
- A041 QUALITY MANAGEMENT SYSTEM
- A042 DART NOTIFICATION BY SUPPLIER
- A043 RETENTION OF QUALITY DOCUMENT
- A048 COUNTERFEIT PARTS AVOIDANCE, DETECTION, MITIGATION AND DISPOSITION PROGRAM
- A049 SUPPLIER AWARENESS

Terms & Condition of Purchasing(Suppliers) and Procurement Quality Clauses are an integral part of our AS9100 requirements. To learn in detail, please visit www.dartaerospace.com for further explanation.

Plex 10/8/19 2:03 PM Dart.paul.derick



O'Neal High-Performance Metals Group



**Packing
Slip**

ORDER NO.: 60689175

FROM: CRAN

PAGE 1

CUST NUMBER: 1203407 NET WGT: 5.695 REQ.DATE: 10/08/19 EARLY
SOLD TO: SHIP TO:
E.T.M. INDUSTRIES INC E.T.M. INDUSTRIES INC
310 HALL AVENUE 310 HALL AVENUE
BOX 610 ENUE RENFREW ONTARIO CANADA
RENFREW ON CANADA CN K7V 4E7
SALESPERSON: DEANNA PIMM SHIP BY: 10/01/19
TERMS: NET 30 DAYS VIA: COMMON CARRIER
F.O.B.: SHIPPING POINT FREIGHT: PREPAID
CUST ORD NO.: 116042 RELEASE NO.:
RECEIVING PHONE: 613 432.6136

LINE	ITEM DESCRIPTION	WIDTH	LENGTH
0001 41952	D6061-T6 3/8 OD X .058 WA		12 FT

CLN#	ORD QTY	INVOICE QTY	SHIPPED QTY	WT	PCS
	7.000 EA	7.000 EA	84.000 FT	5.695	7

** 1 TEST REPORTS REQUIRED **

** 1 CERTS REQUIRED **

ECCN: EAR99 Export License: NLR Expiration Date: 0/00/00
PO:49396766 HT:F002866420002 PC: 7 CUSTOMER QTY: 84.000 UOM FT
MLT:UNITED STATES MFG:UNITED STATES SLB/CL:227451

CLEAR THRU E.T.M BROKER - H.O.C. - HARTWIG, O'SHEA &
CARTWRIGHT TEL 905-672-5100

AREA		TYPE OF PKG	PKGS	GRS WEIGHT	WIDTH	LENGTH	HGHT
NEW PEN		DOUBLE CARTON	1.000	25.695	3.0000	150.0000	3
Orders In Package - 1			Box No -	TWPK19071498	CUBIC FT		.7813
			1.000	25.695			

BY: WILFREDO NIEVES
RT 000-

UNLOAD TYPE: NONE SPECIFIED

108578.
Stack.
DART

RECEIVED
OCT 02 2019

DATE SHIPPED _____

1 PO: *116042*

DATE FILLED _____

THANK YOU FOR THIS ORDER

TERMS AND CONDITIONS APPLICABLE TO THE SALE OF THESE
PRODUCTS ARE SET FORTH ON OUR WEBSITE FOR YOUR CAREFUL
REVIEW.
<http://www.twmetals.com/invoice-terms.html>



O'Neal High-Performance Metals Group



Packing
Slip

ORDER NO.: 60689175

FROM: CRAN

PAGE 2

CUST NUMBER: 1203407 NET WGT:

5.695 REQ.DATE: 10/08/19 EARLY

SOLD TO:

SHIP TO:

E.T.M. INDUSTRIES INC

E.T.M. INDUSTRIES INC

310 HALL AVENUE

310 HALL AVENUE

BOX 610 ENUE

RENFREW ONTARIO CANADA

RENFREW ON

CANADA

CN K7V 4E7

CANADA

CN K7V 4E7

SALESPERSON:

DEANNA PIMM

TERMS:

NET 30 DAYS

F.O.B.:

SHIPPING POINT

CUST ORD NO.:

116042

VIA:

COMMON CARRIER

FREIGHT:

PREPAID

RELEASE NO.:

SHIP BY:

10/01/19

27 ENGLEHARD DRIVE

MONROE TWP

NJ 08831

RECEIVING PHONE: 613 432 6136

"TW Metals SDS data is available on our website at www.twmetals.com. SDS data can be found under the Company Tab,>Compliance/QA,>SDS. If you do not have access to our website, you may call us at 610-458-1300, and we will mail or fax you a copy of our current SDS date to you."

"CERTIFICATE OF CONFORMANCE"

"TW Metals certifies that the material supplied on this purchase order and contained in the heat/lot number referenced above has been manufactured, inspected, and tested in accordance with the material specification. These records are on file at TW Metals. Packaging material for shipments to Europe and China consists of manufactured wood products and complies with the European emergency measures for coniferous non-manufactured wood packing material"

Electronically Generated Certificate-Valid without signature Date: 9/30/19

These commodities have been exported from the United States in accordance with the U.S. export control laws, export administrations regulations. Diversion contrary to U.S. law prohibited.

RECEIVED

OCT 02 2019

108578
Stock

1
THANK YOU FOR THIS ORDER

TERMS AND CONDITIONS APPLICABLE TO THE SALE OF THESE
PRODUCTS ARE SET FORTH ON OUR WEBSITE FOR YOUR CAREFUL
REVIEW.
<http://www.twmetals.com/invoice-terms.html>

KAISER ALUMINUM FABRICATED PRODUCTS

CERTIFIED TEST REPORT

<http://Online.KaiserAluminum.com>

KAISER ALUMINUM
FABRICATED PRODUCTS, LLC
8573 W. WILLIS ROAD
CHANDLER, AZ 85226

CUSTOMER PO NUMBER: M49396766-1		CUSTOMER PART NUMBER: 41952		PRODUCT DESCRIPTION: Drawn Seamless Tube/Pipe	
KAISER ORDER NUMBER: 227451	LINE ITEM: 001	SHIP DATE: 11/30/2018	KAISER LOT NUMBER: F00286642	ALLOY: 6061 ✓	TEMPER: T6 ✓
WEIGHT SHIPPED: 665.000 LB	QUANTITY: 820.000 PCS	B/L NUMBER: 231858	DIAM/DAF/THKNS:	WIDTH:	LENGTH: 12.000 FT
SHIP TO: TW METALS INC 235 WEST TUBEWAY DRIVE CAROL STREAM, IL 60188 USA			SOLD TO: TW METALS INC 760 CONSTITUTION DRIVE SUITE 204 EXTON, PA 19341 USA		

Actual Physical Properties

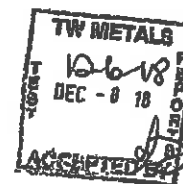
REFERENCE	DASH#	SAMPLE#	UTS (KSI)	YTS (KSI)	ELONG%	HARDNESS	CON%IACS	BEND
F00286642	0001	0001	45.9	38.3	19.0	N/A	N/A	N/A
F00286642	0002 ✓	0001	45.6	38.1	19.0	N/A	N/A	N/A

Chemical Composition (wt%), Aluminum Remainder

LIMITS	Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti	Pb	Bi	Zr	Ea	Tot
Maximum	0.80	0.70	0.40	0.15	1.20	0.35	0.25	0.15	NA	NA	NA	0.05	0.15
Minimum	0.40	0.00	0.15	0.00	0.80	0.04	0.00	0.00	NA	NA	NA	0.00	0.00
D22253	.57	.27	.22	.04	.95	.10	.04	.02	.00	.00	.00	.01	.02

Applicable Requirements:

Description: OD: 0.3750"; Wall: 0.0580"; Round @
AMS4082P AMS-WW-T-700/6C ASTM B210-12
WE TAKE EXCEPTION TO PARA. 5.2.1., Per AMS4082P, WAS NOT OILED.
This Product Complies to FAR BAA, DFARS BAA, FAR TAA
COMPLIES TO DIN EN 10204 JAN 2005
No Weld Repair. Mercury Free.



Miscellaneous Notes

MANUFACTURED IN USA MELTED IN USA
MATERIAL COMPLIES WITH FAR BAA (FAR 52.225-1, BUY AMERICAN ACT- SUPPLIES), DFARS BAA
(DFARS 252.225-7001 BUY AMERICAN ACT & BAL OF PAYMENTS PROG), AND FAR TAA (FAR 52.225-5
TRADE AGREEMENTS).

RECEIVED
OCT 02 2019

116042
108578

Plant Serial: 00030259
Kaiser Order Number: 227451
Line Item: 001

KAISER ALUMINUM FABRICATED PRODUCTS

KAISER ALUMINUM
FABRICATED PRODUCTS, LLC
6573 W. WILLIS ROAD
CHANDLER, AZ 85226

*Ben
Crew*

CERTIFIED TEST REPORT

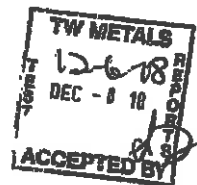
<http://Online.KaiserAluminum.com>

CERTIFICATION

Kaiser Aluminum Fabricated Products, LLC ('Kaiser') hereby certifies that metal shipped under this order has been inspected and tested and found in conformance with the applicable specifications forming a part of the description set forth in Kaiser's sales acknowledgement form. Any warranty is limited to that shown on Kaiser's general terms & conditions of sale. Test reports are on file subject to examination.

Hans Kattentidt, Quality Manager

L.H.



*116045
108573
Stock
RECEIVED
OCT 02 2019*

Plant Serial: 00030259
Kaiser Order Number: 227451
Line Item: 001



VAC AERO
INTERNATIONAL INC.

CERTIFICAT DE CONFORMITÉ / CERTIFICATE OF CONFORMITY

MTL 165558-1

NO. T.P.S. / GST NO. : R105468102

10/16/2019

MM / DD / YYYY

PAGE : 1

☐ HEAD OFFICE
1371 SPEERS ROAD, OAKVILLE, ONTARIO
CANADA L6L 2X5
TEL: (905) 827-4171 FAX: (905) 827-7489

☒ QUEBEC DIVISION
7450 RUE VÉRITÉ STREET, ST. LAURENT, QUÉBEC
CANADA H4S 1C5
TEL: (514) 334-4240 FAX: (514) 334-6269

VENDU À: 2ETM01
BILL TO: E T M INDUSTRIES INC
310 HALL AVENUE BOX 610
RENFREW, ONTARIO
E-BILLING
K7V 4E7

EXPÉDIÉ À:
SHIP TO: E T M INDUSTRIES INC
310 HALL AVENUE
RENFREW, ONTARIO
K7V 4E7

EXPÉDIÉ LE / DATE SHIPPED	EXPÉDIÉ PAR /SHIP VIA	F.A.B. / F.O.B.
10/16/2019		
NO. DE COMMANDE DU CLIENT / CUSTOMER P/O NO.	TERMES / TERMS	
116115	NET 30 DAYS	

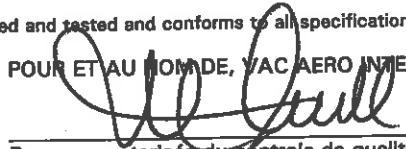
NO D'ARTICLE PART No.	DESCRIPTION DU PRODUIT DESCRIPTION	MU UOM	QTÉE COMM. QTY ORD.	QTÉE EXP. QTY SHPD.	TEST RESULTS
D5518-1P	CROSSBOLT SPACER REV: A JOB NO. 108578 Process Specifications: MATERIAL: 6061-T6 WW-T-700/6 AMS4080 SOLUTION HEAT TREATED AT 985+/-10F FOR 46 MIN. FURNACE #4 AND WATER QUENCHED (QUENCH DELAY 6 SECONDS AND FINAL QUENCH TEMPERATURE 76 F) AND NATURAL AGING AT ROOM TEMPERATURE TO T42 CONDITION PER AMS 2770 P INSPECTED PER AMS 2658 D >>> REFERENCE: REPORT #T-165558	ea	42	42	

TOUS LES PARAMÈTRES DES CYCLES DE TRAITEMENT THERMIQUE ONT ÉTÉ VÉRIFIÉS SUR LES CHARTES DE FOUR ET RENCONTRENT LES EXIGENCES STIPULÉES PAR LE CLIENT
ALL HEAT TREATING CYCLE PARAMETERS WERE VERIFIED ON FURNACE CHARTS AND ARE IN COMPLIANCE WITH CUSTOMER REQUIREMENTS.

Par la présente, je certifie que le matériel de a été inspecté et vérifié et est conforme à toutes les caractéristiques et conditions demandées
dans le contrat et/ou sur le bon de commande.

I hereby certify that the material covered by this release note has been inspected and tested and conforms to all specifications relevant
thereto in accordance with the conditions of the contract / or purchase order.

POUR ET AU NOM DE, VAC AERO INTERNATIONAL INC.


Personne autorisée de contrôle de qualité
Authorized Q.C. Inspector



TRAITEMENTS THERMIQUES SOUS VIDE - NITRURATION - MÉTALLISATION - PROCÉDÉS SPÉCIAUX
VACUUM BRAZING - HEAT TREATING - SPECIAL PROCESSING - FURNACE EQUIPMENT
TURBINE COMPONENT OVERHAUL - PLASMA AND OTHER COATINGS





VAC AERO INTERNATIONAL INC. - QC DIVISION
ALUMINUM TEMPER INSPECTION REPORT



Customer : ETM INDUSTRIES

Report No : T-165558

Part Number : D5518-1P

Customer P.O. No : 116115

Quantity: 42

Batch No : 165558

Testing Method(s) : VAIM 7101 Iss. 33

Testing Specification(s): AMS 2658 rev D

Equipment used

Hardness : INDENTRON 600

Temperature (°F): 71

Conductivity : N/A

Humidity (%): 42

Sampling : ☐

100% testing : ☒

HARDNESS RESULTS

REQUIREMENTS

65,0 - 70,0 HREw
(67,0 - 70,0 HR15Tw)

60,0 HREw min.
(64,5 HR15Tw min.)

CONDUCTIVITY RESULTS

REQUIREMENTS

N/A (too small to test)

35,5 - 43,0 % IACS

DISPOSITION: RESULTS OBTAINED MEET CUSTOMER REQUIREMENTS

Inspected by:

GV




Date: 15 OCTOBER 2019

Approved by:

MC




Date: 15 OCTOBER 2019

E.T.M. INDUSTRIES INC.
310 HALL AVENUE
BOX 610
RENFREW, ON K7V 4E7
Canada

Ph: 613-432-6136

Fax: 613-432-8212

Pack List

Number: 144604

Date: 22-Oct-19

To

DART AEROSPACE
1270 ABERDEEN STREET
HAWKESBURY, ON K6A 1K7
Canada

Ship To

Patrick Lussier
DART AEROSPACE
1270 ABERDEEN STREET
HAWKESBURY, ON K6A 1K7
Canada

Ph: 613-632-5200

Fax: 613-632-5246

Ph: 613-632-5200

Fax: 613-632-5246

Terms		Ship Via	
Net 30 days			
Quantity	Description	Rev: A	
50 each	Part: D5518-1P CROSSBOLT SPACER SO: 25664 **LOT #108578	PO: POHB043487	Line: 29
CERTIFICATE OF COMPLIANCE "I hereby certify that the material described above is in conformance with applicable physical and dimensional specifications; that it was manufactured in accordance with applicable process specifications; and has been inspected to verify conformance to those specifications." APPROVED SIGNATORY (QUALITY ASSURANCE)			

DAS
68
9/89

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OCT 23 2019

DART AEROSPACE LTD.